|  |  |
| --- | --- |
| **a a = a2(1)**  **a a a = a3     (2)**  **a b = ab     (3)**  **a2 b2 = (ab)2      (4)**  **a2 a3 = a2 + 3 = a5      (5)**  **a4 / a3 = a(4 - 3) = a     (6)**  **a0 = 1        (7)**  **(a + b)2 = a2 + 2 ab + b2         (8)**  **(a - b)2 = a2 - 2ab + b2         (9)**  **(a + b)3 = a3 + 3a2b + 3ab2 + b3         (10)**  **(a - b)3 = a3 - 3a2b + 3 ab2 - b3         (11)**  **a2 - b2 = (a - b) (a + b)         (12)**  **a3 - b3 = (a - b)3 + 3 a b (a - b)        (13)**  **a3 + b3 = (a + b)3 - 3 a b (a + b)         (14)**  **a b = ((a + b)  / 2)2 - ((a - b) / 2)2    (15)** | **a3 / b3 = (a / b)3       (16)**  **1 / a3 = (1 / a)3 = a-3     (17)**  **(a2)3 = a2 3 = (a3)2 = a6     (18)**  **a3 + b3 = (a + b) (a2 - a b + b2)     (19)**  **a3 - b3 = (a - b) (a2 + a b + b2)     (20)**  **(a + b)3 = a3 + 3 a2 b + 3 a b2 + b3     (21)**  **(a - b)3 = a3 - 3 a2 b + 3 a b2 - b3     (22)**  **a1/2 a1/2 = a     (23)**  **a1/3 a1/3 a1/3 = a     (24)**  **(a1/3)3 = a     (25)**  **(a2)1/3 = (a1/3)2 = a2∕3      (26)**  **(a1/3)1/4  = a1/3 1/4 = (a1/4)1/3     (27)**  **(a b)1/3 = a1/3 b1/3    (28)**  **(a / b)1/3 = a1/3 / b1/3    (29)**  **(1 / a)1/3 = 1 / a1/3 = a-1/3      (30)** |